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| | | | |
|--------------|----|--------|---|
| NEWS | 1 | | Web Page URLs for STN Seminar Schedule - N. America |
| NEWS | 2 | | "Ask CAS" for self-help around the clock |
| NEWS | 3 | SEP 09 | CA/CAPLUS records now contain indexing from 1907 to the present |
| NEWS | 4 | Jul 15 | Data from 1960-1976 added to RDISCLOSURE |
| NEWS | 5 | Jul 21 | Identification of STN records implemented |
| NEWS | 6 | Jul 21 | Polymer class term count added to REGISTRY |
| NEWS | 7 | Jul 22 | INPADOC: Basic index (/BI) enhanced; Simultaneous Left and Right Truncation available |
| NEWS | 8 | AUG 05 | New pricing for EUROPATFULL and PCTFULL effective August 1, 2003 |
| NEWS | 9 | AUG 13 | Field Availability (/FA) field enhanced in BEILSTEIN |
| NEWS | 10 | AUG 15 | PATDPAFULL: one FREE connect hour, per account, in September 2003 |
| NEWS | 11 | AUG 15 | PCTGEN: one FREE connect hour, per account, in September 2003 |
| NEWS | 12 | AUG 15 | RDISCLOSURE: one FREE connect hour, per account, in September 2003 |
| NEWS | 13 | AUG 15 | TEMA: one FREE connect hour, per account, in September 2003 |
| NEWS | 14 | AUG 18 | Data available for download as a PDF in RDISCLOSURE |
| NEWS | 15 | AUG 18 | Simultaneous left and right truncation added to PASCAL |
| NEWS | 16 | AUG 18 | FROSTI and KOSMET enhanced with Simultaneous Left and Right Truncation |
| NEWS | 17 | AUG 18 | Simultaneous left and right truncation added to ANABSTR |
| NEWS | 18 | SEP 22 | DIPPR file reloaded |
| NEWS | 19 | SEP 25 | INPADOC: Legal Status data to be reloaded |
| NEWS | 20 | SEP 29 | DISSABS now available on STN |
| NEWS EXPRESS | | | April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003 |
| NEWS HOURS | | | STN Operating Hours Plus Help Desk Availability |
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| NEWS PHONE | | | Direct Dial and Telecommunication Network Access to STN |
| NEWS WWW | | | CAS World Wide Web Site (general information) |

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 17:03:22 ON 29 SEP 2003

=> file .jacob

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

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0.21

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FILE 'USPATFULL' ENTERED AT 17:03:30 ON 29 SEP 2003

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=> fluores?(P)(signal or intensity or ratio or change or alter or
distribution)(P)(cytoplasm(4A)membrane)(P)cell

L1 109 FILE CAPLUS

L2 103 FILE BIOSIS

L3 93 FILE MEDLINE

L4 91 FILE EMBASE

L5 99 FILE USPATFULL

TOTAL FOR ALL FILES

L6 495 FLUORES?(P)(SIGNAL OR INTENSITY OR RATIO OR CHANGE OR ALTER OR
DISTRIBUTION)(P)(CYTOPLASM(4A) MEMBRANE)(P) CELL

=> cytoplasm(3A)membrane

L7 2836 FILE CAPLUS

L8 3155 FILE BIOSIS

L9 2085 FILE MEDLINE

L10 1940 FILE EMBASE

L11 1317 FILE USPATFULL

TOTAL FOR ALL FILES

L12 11333 CYTOPLASM(3A) MEMBRANE

=> l6 and l12

L13 90 FILE CAPLUS

L14 87 FILE BIOSIS

L15 75 FILE MEDLINE

L16 73 FILE EMBASE

L17 92 FILE USPATFULL

TOTAL FOR ALL FILES

L18 417 L6 AND L12

=> l18 and translocat?

L19 17 FILE CAPLUS

L20 15 FILE BIOSIS

L21 15 FILE MEDLINE

L22 13 FILE EMBASE

L23 37 FILE USPATFULL

TOTAL FOR ALL FILES

L24 97 L18 AND TRANSLOCAT?

=> l24 and GTP

L25 0 FILE CAPLUS
L26 0 FILE BIOSIS
L27 2 FILE MEDLINE
L28 0 FILE EMBASE
L29 14 FILE USPATFULL

TOTAL FOR ALL FILES

L30 16 L24 AND GTP

=> dup rem

ENTER L# LIST OR (END):l30

PROCESSING COMPLETED FOR L30

L31 16 DUP REM L30 (0 DUPLICATES REMOVED)

=> d l31 ibib abs total

L31 ANSWER 1 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2003:244199 USPATFULL

TITLE: Use of specific T2R taste receptors to identify compounds that block bitter taste

INVENTOR(S): Pronin, Alexey, San Diego, CA, UNITED STATES
Connor, Judy, Vista, CA, UNITED STATES
Tang, Huixian, San Diego, CA, UNITED STATES
Keung, Walter, San Diego, CA, UNITED STATES
Servant, Guy, San Diego, CA, UNITED STATES
Adler, Jon, San Diego, CA, UNITED STATES
O'Connell, Shawn, San Diego, CA, UNITED STATES
Brust, Paul, San Diego, CA, UNITED STATES

PATENT ASSIGNEE(S): Senomyx, Inc., La Jolla, CA, 92037 (U.S. corporation)

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|---------------|
| PATENT INFORMATION: | US 2003170608 | A1 | 20030911 |
| APPLICATION INFO.: | US 2002-191058 | A1 | 20020710 (10) |

| | NUMBER | DATE |
|-----------------------|--|---------------|
| PRIORITY INFORMATION: | US 2001-303811P | 20010710 (60) |
| | US 2002-372089P | 20020415 (60) |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | Pillsbury Winthrop LLP, Intellectual Property Group, 1600 Tysons Boulevard, McLean, VA, 22102 | |
| NUMBER OF CLAIMS: | 116 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 6 Drawing Page(s) | |
| LINE COUNT: | 2491 | |

AB Assays for identifying compounds that modulate, preferably inhibit bitter taste associated with the activation of hT2R4, hT2R44 and/or hT2R61 are provided. The compounds identified according to these assays should modulate, e.g., inhibit bitter taste associated with bitter tasting compounds including quinine, 6-nitrosaccharin, saccharin and/or denatonium. These compounds are useful additives for foods, beverages or medicinal preparations having a bitter taste.

L31 ANSWER 2 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2003:237980 USPATFULL

TITLE: Mammalian sweet and amino acid heterodimeric taste receptors

INVENTOR(S): Zuker, Charles S., San Diego, CA, UNITED STATES

Chandrashekar, Jayaram, San Diego, CA, UNITED STATES
Nelson, Greg, San Diego, CA, UNITED STATES
Zhang, Yifeng, LaJolla, CA, UNITED STATES
Ryba, Nicholas J.P., Bethesda, MD, UNITED STATES
Hoon, Mark A., Kensington, MD, UNITED STATES
The Regents of the University of California (U.S.
corporation)

PATENT ASSIGNEE(S):

| | NUMBER | KIND | DATE |
|-----------------------|--|------|---------------|
| PATENT INFORMATION: | US 2003166137 | A1 | 20030904 |
| APPLICATION INFO.: | US 2002-190417 | A1 | 20020703 (10) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 2001-927315, filed on 10 Aug 2001, PENDING | | |

| | NUMBER | DATE |
|-----------------------|--|---------------|
| PRIORITY INFORMATION: | US 2002-358925P | 20020222 (60) |
| | US 2001-302898P | 20010703 (60) |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH FLOOR, SAN FRANCISCO, CA, 94111-3834 | |
| NUMBER OF CLAIMS: | 81 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 20 Drawing Page(s) | |
| LINE COUNT: | 4203 | |

AB The present invention provides isolated nucleic acid and amino acid sequences of sweet or amino acid taste receptors comprising two heterologous G-protein coupled receptor polypeptides from the T1R family of sensory G-protein coupled receptors, antibodies to such receptors, methods of detecting such nucleic acids and receptors, and methods of screening for modulators of sweet and amino acid taste receptors.

L31 ANSWER 3 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2003:140481 USPATFULL
TITLE: System for cell-based screening
INVENTOR(S): Giuliano, Kenneth, Pittsburgh, PA, UNITED STATES
Kapur, Ravi, Gibsonia, PA, UNITED STATES
PATENT ASSIGNEE(S): Cellomics, Inc., Pittsburgh, PA, UNITED STATES (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|--|------|---------------|
| PATENT INFORMATION: | US 2003096322 | A1 | 20030522 |
| APPLICATION INFO.: | US 2002-100957 | A1 | 20020319 (10) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 2000-513783, filed on 25 Feb 2000, GRANTED, Pat. No. US 6416959 Continuation of Ser. No. US 1999-430656, filed on 29 Oct 1999, PENDING Continuation of Ser. No. US 1999-398965, filed on 17 Sep 1999, ABANDONED Continuation-in-part of Ser. No. US 1999-352171, filed on 12 Jul 1999, PENDING Continuation-in-part of Ser. No. US 1998-31271, filed on 27 Feb 1998, PENDING Continuation-in-part of Ser. No. US 1997-810983, filed on 27 Feb 1997, GRANTED, Pat. No. US 5989835 | | |

| | NUMBER | DATE |
|-----------------------|-----------------|---------------|
| PRIORITY INFORMATION: | US 1999-122152P | 19990226 (60) |
| | US 1999-123399P | 19990308 (60) |
| | US 1999-151797P | 19990831 (60) |
| | US 1999-168408P | 19991201 (60) |

DOCUMENT TYPE: Utility
 FILE SEGMENT: APPLICATION
 LEGAL REPRESENTATIVE: MCDONNELL BOEHNEN HULBERT & BERGHOFF, 300 SOUTH WACKER
 DRIVE, SUITE 3200, CHICAGO, IL, 60606
 NUMBER OF CLAIMS: 20
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 49 Drawing Page(s)
 LINE COUNT: 5201

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides systems, methods, screens, reagents and kits for optical system analysis of cells to rapidly determine the distribution, environment, or activity of fluorescently labeled reporter molecules in cells for the purpose of screening large numbers of compounds for those that specifically affect particular biological functions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L31 ANSWER 4 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2003:127844 USPATFULL
 TITLE: Human olfactory receptors and genes encoding same
 INVENTOR(S): Zozulya, Sergey, San Diego, CA, UNITED STATES

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|--------------|
| PATENT INFORMATION: | US 2003088059 | A1 | 20030508 |
| APPLICATION INFO.: | US 2001-804291 | A1 | 20010313 (9) |

| | NUMBER | DATE |
|-----------------------|-----------------|---------------|
| PRIORITY INFORMATION: | US 2000-188914P | 20000313 (60) |
| | US 2000-192033P | 20000324 (60) |
| | US 2000-198474P | 20000414 (60) |
| | US 2000-199335P | 20000424 (60) |
| | US 2000-207702P | 20000526 (60) |
| | US 2000-213849P | 20000623 (60) |
| | US 2000-226534P | 20000816 (60) |
| | US 2000-230732P | 20000907 (60) |
| | US 2001-266862P | 20010207 (60) |

DOCUMENT TYPE: Utility
 FILE SEGMENT: APPLICATION
 LEGAL REPRESENTATIVE: Pillsbury Winthrop LLP, Intellectual Property Group,
 East Tower, Ninth Floor, 1100 New York Avenue, N.W.,
 Washington, DC, 20005-3918

NUMBER OF CLAIMS: 124
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 22 Drawing Page(s)
 LINE COUNT: 12769

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Newly identified Olfactory G protein-coupled receptors (ORs), and the genes and cDNA encoding said receptors are described. Specifically, G protein-coupled receptors active in olfactory signaling, and the genes and cDNA encoding the same, are described, along with methods for isolating such genes and for isolating and expressing such receptors. Methods for representing olfactory perception of a particular odorant in a mammal are also described, as are methods for generating novel molecules or combinations of molecules that elicit a predetermined odor perception in a mammal, and methods for simulating one or more odors. Further, methods for stimulating or blocking odor perception in a mammal are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L31 ANSWER 5 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2003:78528 USPATFULL
 TITLE: T1R taste receptors and genes encoding same
 INVENTOR(S): Adler, Jon Elliot, San Diego, CA, UNITED STATES
 Li, Xiaodong, San Diego, CA, UNITED STATES
 Staszewski, Lena, San Diego, CA, UNITED STATES
 O'Connell, Shawn, Encinitas, CA, UNITED STATES
 Zozulya, Sergey, San Diego, CA, UNITED STATES
 PATENT ASSIGNEE(S): Senomyx, Inc., La Jolla, CA (U.S. corporation)

| | NUMBER | KIND | DATE |
|---------------------|---------------|------|---------------|
| PATENT INFORMATION: | US 2003054448 | A1 | 20030320 |
| APPLICATION INFO.: | US 2002-35045 | A1 | 20020103 (10) |

| | NUMBER | DATE |
|-----------------------|--|---------------|
| PRIORITY INFORMATION: | US 2001-259227P | 20010103 (60) |
| | US 2001-284547P | 20010419 (60) |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | PILLSBURY WINTHROP, LLP, P.O. BOX 10500, MCLEAN, VA, 22102 | |
| NUMBER OF CLAIMS: | 234 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 5 Drawing Page(s) | |
| LINE COUNT: | 4429 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Newly identified mammalian taste-cell-specific G protein-coupled receptors, and the genes and cDNA encoding said receptors are described. Specifically, T1R G protein-coupled receptors active in taste signaling, and the genes and cDNA encoding the same, are described, along with methods for isolating such genes and for isolating and expressing such receptors. Methods for representing taste perception of a particular taste stimulus in a mammal are also described, as are methods for generating novel molecules or combinations of molecules that elicit a predetermined taste perception in a mammal, and methods for simulating one or more tastes. Further, methods for stimulating or blocking taste perception in a mammal are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L31 ANSWER 6 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2003:57481 USPATFULL
 TITLE: Mammalian sweet taste receptors
 INVENTOR(S): Zuker, Charles S., San Diego, CA, UNITED STATES
 Nelson, Gregory A., San Diego, CA, UNITED STATES
 Chandrashekar, Jayaram, San Diego, CA, UNITED STATES
 Zhang, Yifeng, La Jolla, CA, UNITED STATES
 Ryba, Nicholas J.P., Bethesda, MD, UNITED STATES
 Hoon, Mark A., Kensington, MD, UNITED STATES
 PATENT ASSIGNEE(S): The Regents of the University of California, Oakland, CA, UNITED STATES, 94607-5200 (U.S. corporation)

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|--------------|
| PATENT INFORMATION: | US 2003040045 | A1 | 20030227 |
| APPLICATION INFO.: | US 2001-927315 | A1 | 20010810 (9) |

| | NUMBER | DATE |
|-----------------------|--|---------------|
| PRIORITY INFORMATION: | US 2001-302898P | 20010703 (60) |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO | |

CENTER, EIGHTH FLOOR, SAN FRANCISCO, CA, 94111-3834

NUMBER OF CLAIMS: 54
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 7 Drawing Page(s)
LINE COUNT: 4801

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides isolated nucleic acid and amino acid sequences of sweet taste receptors comprising two heterologous G-protein coupled receptor polypeptides from the T1R family of sensory G-protein coupled receptors, antibodies to such receptors, methods of detecting such nucleic acids and receptors, and methods of screening for modulators of sweet taste receptors.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L31 ANSWER 7 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2003:10649 USPATFULL
TITLE: T1R taste receptors and genes encoding same
INVENTOR(S): Adler, Jon Elliot, San Diego, CA, UNITED STATES
Zozulya, Sergey, San Diego, CA, UNITED STATES
Li, Xiadong, San Diego, CA, UNITED STATES
O'Connell, Shawn, Encinitas, CA, UNITED STATES
Staszewski, Lena, San Diego, CA, UNITED STATES

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|--------------|
| PATENT INFORMATION: | US 2003008344 | A1 | 20030109 |
| APPLICATION INFO.: | US 2001-799629 | A1 | 20010307 (9) |

| | NUMBER | DATE |
|-----------------------|-----------------|---------------|
| PRIORITY INFORMATION: | US 2000-187546P | 20000307 (60) |
| | US 2000-195536P | 20000407 (60) |
| | US 2000-209840P | 20000606 (60) |
| | US 2000-214213P | 20000623 (60) |
| | US 2000-226448P | 20000817 (60) |
| | US 2001-259227P | 20010103 (60) |

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Pillsbury Winthrop LLP, Intellectual Property Group,
East Tower, Ninth Floor, 1100 New York Avenue, N.W.,
Washington, DC, 20005-3918

NUMBER OF CLAIMS: 234
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 1 Drawing Page(s)
LINE COUNT: 4237

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Newly identified mammalian taste-cell-specific G protein-coupled receptors, and the genes and cDNA encoding said receptors are described. Specifically, T1R G protein-coupled receptors active in taste signaling, and the genes and cDNA encoding the same, are described, along with methods for isolating such genes and for isolating and expressing such receptors. Methods for representing taste perception of a particular tastant in a mammal are also described, as are methods for generating novel molecules or combinations of molecules that elicit a predetermined taste perception in a mammal, and methods for simulating one or more tastes. Further, methods for stimulating or blocking taste perception in a mammal are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L31 ANSWER 8 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2003:246823 USPATFULL
TITLE: System for cell-based screening

INVENTOR(S) : Dunlay, R. Terry, Pittsburgh, PA, United States
Taylor, D. Lansing, Pittsburgh, PA, United States
PATENT ASSIGNEE(S) : Cellomics, Inc., Pittsburgh, PA, United States (U.S.
corporation)

| | NUMBER | KIND | DATE |
|-----------------------|---|------|--------------|
| PATENT INFORMATION: | US 6620591 | B1 | 20030916 |
| APPLICATION INFO.: | US 1999-293210 | | 19990416 (9) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 1997-810983, filed on 27 Feb 1997, now patented, Pat. No. US 5989835 | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | GRANTED | | |
| PRIMARY EXAMINER: | Le, Long V. | | |
| ASSISTANT EXAMINER: | Gabel, Gailene R. | | |
| LEGAL REPRESENTATIVE: | McDonnell Boehnen Hulbert & Berghoff, Harper, David S. | | |
| NUMBER OF CLAIMS: | 28 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 19 Drawing Figure(s); 10 Drawing Page(s) | | |
| LINE COUNT: | 1027 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to an optical system for determining the distribution, environment, or activity of fluorescently labeled reporter molecules in cells for the purpose of screening large numbers of compounds for specific biological activity. The invention involves providing cells containing fluorescent reporter molecules in an array of locations and scanning numerous cells in each location with a fluorescent microscope, converting the optical information into digital data, and utilizing the digital data to determine the distribution, environment or activity of the fluorescently labeled reporter molecules in the cells. The array of locations may be an industry standard 96 well or 384 well microtiter plate or a microplate which is a microplate having a cells in a micropatterned array of locations. The invention includes apparatus and computerized method for processing, displaying and storing the data.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L31 ANSWER 9 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2003:148855 USPATFULL
TITLE: System for cell-based screening
INVENTOR(S) : Dunlay, R. Terry, Pittsburgh, PA, United States
Taylor, D. Lansing, Pittsburgh, PA, United States
PATENT ASSIGNEE(S) : Cellomics, Inc., Pittsburgh, PA, United States (U.S.
corporation)

| | NUMBER | KIND | DATE |
|-----------------------|--|------|--------------|
| PATENT INFORMATION: | US 6573039 | B1 | 20030603 |
| APPLICATION INFO.: | US 2000-650937 | | 20000829 (9) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 1999-293209, filed on 16 Apr 1999, now abandoned Division of Ser. No. US 1997-810983, filed on 27 Feb 1997, now patented, Pat. No. US 5989835 | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | GRANTED | | |
| PRIMARY EXAMINER: | Le, Long V. | | |
| ASSISTANT EXAMINER: | Padmanabhan, Kartic | | |
| LEGAL REPRESENTATIVE: | McDonnell Boehnen Hulbert & Berghoff, Harper, David S. | | |
| NUMBER OF CLAIMS: | 15 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 10 Drawing Figure(s); 10 Drawing Page(s) | | |
| LINE COUNT: | 992 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to an optical system for determining the distribution, environment, or activity of fluorescently labeled reporter molecules in cells for the purpose of screening large numbers of compounds for specific biological activity. The invention involves providing cells containing fluorescent reporter molecules in an array of locations and scanning numerous cells in each location with a fluorescent microscope, converting the optical information into digital data, and utilizing the digital data to determine the distribution, environment or activity of the fluorescently labeled reporter molecules in the cells. The array of locations may be an industry standard 96 well or 384 well microtiter plate or a microplate which is a microplate having a cells in a micropatterned array of locations. The invention includes apparatus and computerized method for processing, displaying and storing the data.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L31 ANSWER 10 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2002:287561 USPATFULL
TITLE: T1R hetero-oligomeric taste receptors
INVENTOR(S): Adler, Jon Elliot, San Diego, CA, UNITED STATES
Li, Xiaodong, San Diego, CA, UNITED STATES
Staszewski, Lena, San Diego, CA, UNITED STATES
Xu, Hong, San Diego, CA, UNITED STATES
Echeverri, Fernando, Chula Vista, CA, UNITED STATES

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|--------------|
| PATENT INFORMATION: | US 2002160424 | A1 | 20021031 |
| APPLICATION INFO.: | US 2001-897427 | A1 | 20010703 (9) |

| | NUMBER | DATE |
|-----------------------|--|---------------|
| PRIORITY INFORMATION: | US 2001-280606P | 20010330 (60) |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | PILLSBURY WINTHROP, LLP, P.O. BOX 10500, MCLEAN, VA, 22102 | |
| NUMBER OF CLAIMS: | 99 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 6 Drawing Page(s) | |
| LINE COUNT: | 3201 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Newly identified mammalian taste-cell-specific G protein-coupled receptors which function as hetero-oligomeric complexes in the sweet taste transduction pathway, and the genes and cDNA encoding said receptors are described. Specifically, T1R G protein-coupled receptors active in sweet taste signaling as hetero-oligomeric complexes, and the genes and cDNA encoding the same, are described, along with methods for isolating such genes and for isolating and expressing such receptors. Methods for identifying putative taste modulating compounds using such hetero-oligomeric complexes also described, as is a novel surface expression facilitating peptide useful for targeting integral plasma membrane proteins to the surface of a cell.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L31 ANSWER 11 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2002:243087 USPATFULL
TITLE: Receptor fingerprinting, sensory perception, and biosensors of chemical sensants
INVENTOR(S): Stryer, Lubert, Stanford, CA, UNITED STATES
Zozulya, Sergey, San Diego, CA, UNITED STATES
PATENT ASSIGNEE(S): Senomyx, Inc., La Jalla, CA, UNITED STATES (U.S.)

corporation)

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|--------------|
| PATENT INFORMATION: | US 2002132273 | A1 | 20020919 |
| APPLICATION INFO.: | US 2001-886055 | A1 | 20010622 (9) |

| | NUMBER | DATE |
|-----------------------|--|---------------|
| PRIORITY INFORMATION: | US 2000-213812P | 20000622 (60) |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | PILLSBURY WINTHROP LLP, 1600 TYSONS BOULEVARD, MCLEAN, VA, 22102 | |
| NUMBER OF CLAIMS: | 22 | |
| EXEMPLARY CLAIM: | 1 | |
| LINE COUNT: | 2854 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The use of sensory G protein-coupled receptors that recognize chemical sensants, particularly those involving olfactory and taste receptors; polypeptide fragments and mutants thereof; classes of such receptors; polynucleotides encoding such receptors, fragments and mutants thereof, and representatives of receptor classes; genetic vectors including such polynucleotides; and cells and non-human organisms engineered to express such receptor complexes, fragments and mutants of an olfactory or taste receptor, and representatives of receptor classes to simulate sensory perception of odorants and tastants is described. The use of such products as a biosensor or a component thereof to detect, identify, measure, or otherwise process the event of binding between the receptor and its cognate ligand (i.e., chemical sensant) is also described. The invention has application, for example, in the design and formulation of odorant and tastant compositions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L31 ANSWER 12 OF 16 USPATFULL on STN
ACCESSION NUMBER: 2002:178763 USPATFULL
TITLE: T2R taste receptors and genes encoding same
INVENTOR(S): Adler, Jon Elliot, San Diego, CA, UNITED STATES

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|--------------|
| PATENT INFORMATION: | US 2002094551 | A1 | 20020718 |
| APPLICATION INFO.: | US 2001-825882 | A1 | 20010405 (9) |

| | NUMBER | DATE |
|-----------------------|--|---------------|
| PRIORITY INFORMATION: | US 2000-195532P | 20000407 (60) |
| | US 2000-247014P | 20001113 (60) |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | PILLSBURY WINTHROP LLP, 1600 TYSONS BOULEVARD, MCLEAN, VA, 22102 | |
| NUMBER OF CLAIMS: | 137 | |
| EXEMPLARY CLAIM: | 1 | |
| LINE COUNT: | 3790 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Newly identified mammalian taste-cell-specific G Protein-Coupled Receptors and the genes encoding said receptors are described. Specifically, T2R taste G Protein-Coupled Receptors that are believed to be involved in bitter taste sensation, and the genes encoding the same, are described, along with methods for isolating such genes and for isolating and expressing such receptors. Methods for representing taste perception of a particular tastant in a mammal are also described, as

are methods for generating a novel molecules or combinations of molecules that elicit a predetermined taste perception in a mammal, and methods for simulating one or more tastes.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L31 ANSWER 13 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2002:168052 USPATFULL
TITLE: System for cell-based screening
INVENTOR(S): Giuliano, Kenneth, 351 Hawthorne Rd., Pittsburgh, PA,
United States 15209
Kapur, Ravi, 2942 E. Bardoneer Rd., Gibsonia, PA,
United States 15044

| | NUMBER | KIND | DATE |
|-----------------------|---|------|--------------|
| PATENT INFORMATION: | US 6416959 | B1 | 20020709 |
| APPLICATION INFO.: | US 2000-513783 | | 20000225 (9) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 1999-430656, filed on 29 Oct 1999 Continuation-in-part of Ser. No. US 1999-398965, filed on 17 Sep 1999 Continuation-in-part of Ser. No. US 1999-352171, filed on 12 Jul 1999 Continuation-in-part of Ser. No. US 1998-31271, filed on 27 Feb 1998 Continuation-in-part of Ser. No. US 1997-810983, filed on 27 Feb 1997, now patented, Pat. No. US 5989835 | | |

| | NUMBER | DATE |
|-----------------------|-----------------|---------------|
| PRIORITY INFORMATION: | US 1999-122152P | 19990226 (60) |
| | US 1999-123399P | 19990308 (60) |
| | US 1999-151797P | 19990831 (60) |
| | US 1999-168408P | 19991201 (60) |

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Chin, Christopher L.
ASSISTANT EXAMINER: Cook, Lisa V
NUMBER OF CLAIMS: 17
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 63 Drawing Figure(s); 49 Drawing Page(s)
LINE COUNT: 10972

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides systems, methods, screens, reagents and kits for optical system analysis of cells to rapidly determine the distribution, environment, or activity of fluorescently labeled reporter molecules in cells for the purpose of screening large numbers of compounds for those that specifically affect particular biological functions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L31 ANSWER 14 OF 16 MEDLINE on STN

ACCESSION NUMBER: 2002082649 MEDLINE
DOCUMENT NUMBER: 21669057 PubMed ID: 11809860
TITLE: Real-time visualization of a fluorescent G(alpha)(s): dissociation of the activated G protein from plasma membrane.
AUTHOR: Yu Jiang-Zhou; Rasenick Mark M
CORPORATE SOURCE: Department of Physiology and Biophysics, University of Illinois at Chicago, College of Medicine, Chicago, Illinois 60612-7342, USA.
CONTRACT NUMBER: AG15482 (NIA)
MH39595 (NIMH)
MH57391 (NIMH)

SOURCE: MOLECULAR PHARMACOLOGY, (2002 Feb) 61 (2) 352-9.
Journal code: 0035623. ISSN: 0026-895X.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200202
ENTRY DATE: Entered STN: 20020128
Last Updated on STN: 20020208
Entered Medline: 20020207

AB To study behavior of activated G(alpha)(s) in living **cells**, green **fluorescent** protein (GFP) was inserted within the internal amino acid sequence of G(alpha)(s) to generate a G(alpha)(s)-GFP fusion protein. The fusion protein maintained a bright green **fluorescence** and was identified by immunoblotting with antibodies against G(alpha)(s) or GFP. The cellular **distribution** of G(alpha)(s)-GFP was similar to that of endogenous G(alpha)(s). G(alpha)(s)-GFP was tightly coupled to the beta adrenergic receptor to activate the G(alpha)(s) effector, adenylyl cyclase. Activation of G(alpha)(s)-GFP by cholera toxin caused a gradual displacement of the fusion protein from the plasma **membrane** throughout the **cytoplasm** in living **cells**. Unlike the slow release of G(alpha)(s)-GFP from the membrane induced by cholera toxin, the beta-adrenergic agonist isoproterenol caused a rapid partial release of the fusion protein into the cytoplasm. At 1 min after treatment with isoproterenol, the extent of G(alpha)(s)-GFP release from plasma membrane sites was maximal; however, insertion of G(alpha)(s)-GFP at other membrane sites occurred during the same time period. **Translocation** of G(alpha)(s)-GFP fusion protein induced by isoproterenol suggested that the internalization of G(alpha)(s) might play a role in **signal** transduction by interacting with effector molecules and cytoskeletal elements at multiple cellular sites.

L31 ANSWER 15 OF 16 MEDLINE on STN

ACCESSION NUMBER: 2001517562 MEDLINE
DOCUMENT NUMBER: 21448679 PubMed ID: 11564766
TITLE: Cutting edge: Differential regulation of chemoattractant receptor-induced degranulation and chemokine production by receptor phosphorylation.
AUTHOR: Ahamed J; Haribabu B; Ali H
CORPORATE SOURCE: Department of Pathology, School of Dental Medicine, University of Pennsylvania, 4010 Locust Street, Philadelphia, PA 19104, USA.
CONTRACT NUMBER: HL-54166 (NHLBI)
HL-63372 (NHLBI)

SOURCE: JOURNAL OF IMMUNOLOGY, (2001 Oct 1) 167 (7) 3559-63.
Journal code: 2985117R. ISSN: 0022-1767.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals
ENTRY MONTH: 200112
ENTRY DATE: Entered STN: 20010924
Last Updated on STN: 20020122
Entered Medline: 20011204

AB Phosphorylation of G protein-coupled receptors and the subsequent recruitment of beta-arrestin play an important role in desensitization of receptor-mediated responses, including degranulation in leukocytes. In this study, we report that receptor phosphorylation also provides a stimulatory **signal** for CCR ligand 2 (CCL2) production. C3a stimulated degranulation in a basophilic leukemia RBL-2H3 **cell** expressing wild-type C3aR or a phosphorylation-deficient mutant (DeltaST-C3aR). In contrast, C3a caused CCL2 production only in C3aR but not DeltaST-C3aR **cells**. Furthermore, overexpression of G

protein-coupled receptor kinase 2 resulted in enhancement of both ligand-induced receptor phosphorylation and CCL2 production but inhibition of degranulation. Agonist activation of C3aR, but not DeltaST-C3aR, led to the **translocation** of green **fluorescent** protein tagged beta-arrestin 2 from the **cytoplasm** to the plasma **membrane**. These data demonstrate that receptor phosphorylation, which provides a turn off **signal** for degranulation, is essential for CCL2 production.

L31 ANSWER 16 OF 16 USPATFULL on STN

ACCESSION NUMBER: 1999:150938 USPATFULL
 TITLE: System for cell-based screening
 INVENTOR(S): Dunlay, R. Terry, Pittsburgh, PA, United States
 Taylor, D. Lansing, Pittsburgh, PA, United States
 PATENT ASSIGNEE(S): Cellomics, Inc., Pittsburgh, PA, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|---|-------|--------------|
| | ----- | ----- | ----- |
| PATENT INFORMATION: | US 5989835 | | 19991123 |
| APPLICATION INFO.: | US 1997-810983 | | 19970227 (8) |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Chin, Christopher L. | | |
| ASSISTANT EXAMINER: | Nguyen, Bao-Thuy L. | | |
| LEGAL REPRESENTATIVE: | Harper, David S. McDonnell Boehnen Hulbert & Berghoff | | |
| NUMBER OF CLAIMS: | 8 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 10 Drawing Figure(s); 10 Drawing Page(s) | | |
| LINE COUNT: | 875 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to an optical system for determining the distribution, environment, or activity of fluorescently labeled reporter molecules in cells for the purpose of screening large numbers of compounds for specific biological activity. The invention involves providing cells containing fluorescent reporter molecules in an array of locations and scanning numerous cells in each location with a fluorescent microscope, converting the optical information into digital data, and utilizing the digital data to determine the distribution, environment or activity of the fluorescently labeled reporter molecules in the cells. The array of locations may be an industry standard 96 well or 384 well microtiter plate or a microplate which is a microplate having a cells in a micropatterned array of locations. The invention includes apparatus and computerized method for processing, displaying and storing the data.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

| L Number | Hits | Search Text | DB | Time stamp |
|----------|--------|---|--|------------------|
| 1 | 3 | fluores\$ same (cytoplasm near3 membrane) same GTP | USPAT; US-PGPUB; EPO; DERWENT | 2003/09/29 18:58 |
| 2 | 161 | fluores\$ same (cytoplasm near3 membrane) | USPAT; US-PGPUB; EPO; DERWENT | 2003/09/29 17:58 |
| 3 | 531352 | +- | USPAT; US-PGPUB; EPO; DERWENT | 2003/09/29 17:58 |
| 5 | 71 | (fluores\$ same (cytoplasm near3 membrane) same (signal or intensity or change or alter)) and (GTP or Rho or tyrosine) | USPAT; US-PGPUB; EPO; DERWENT | 2003/09/29 18:00 |
| 6 | 27 | ((fluores\$ same (cytoplasm near3 membrane) same (signal or intensity or change or alter)) and (GTP or Rho or tyrosine)) and (distribtion or translocat\$) | USPAT; US-PGPUB; EPO; DERWENT | 2003/09/29 18:00 |
| 4 | 95 | fluores\$ same (cytoplasm near3 membrane) same (signal or intensity or change or alter) | USPAT; US-PGPUB; EPO; DERWENT | 2003/09/29 18:05 |
| 7 | 1 | ("5997866").PN. | USPAT; EPO | 2003/09/29 19:03 |
| 8 | 1 | ("5732150").PN. | USPAT; EPO | 2003/09/29 19:11 |
| 10 | 2 | fluores\$ same (scan or imag\$) same (cytoplasm near3 membrane) | USPAT; DERWENT | 2003/09/29 19:13 |
| 11 | 2 | fluores\$ same (scan or imag\$) same (cytoplasm near3 membrane) | USPAT; EPO; DERWENT | 2003/09/29 19:13 |
| 12 | 2 | fluores\$ same (scan or imag\$) same (cytoplasm near3 membrane) | USPAT; EPO; DERWENT | 2003/09/29 19:14 |
| 13 | 4 | fluores\$ same (scan or imag\$) same (cytoplasm near5 membrane) | USPAT; EPO; DERWENT | 2003/09/29 19:27 |
| 14 | 15 | fluores\$ same (scan or imag\$ or cytomet\$) same (cytoplasm near5 membrane) | USPAT; EPO; DERWENT | 2003/09/29 19:27 |
| 15 | 2 | (fluores\$ same (scan or imag\$ or cytomet\$) same (cytoplasm near5 membrane)) and GTP | USPAT; EPO; DERWENT | 2003/09/29 19:29 |
| 16 | 19 | localiz\$ same (cytoplasm near4 membrane) same fluores\$ | USPAT; EPO; DERWENT | 2003/09/29 19:30 |
| 17 | 1 | (localiz\$ same (cytoplasm near4 membrane) same fluores\$) and GTP and tyrosin | USPAT; EPO; DERWENT | 2003/09/29 19:31 |
| 18 | 2 | GTP and Tyrosin and fluores\$ and (scan or imag\$) and (cytoplasm near5 membrane) | USPAT; EPO; DERWENT | 2003/09/29 19:33 |
| 21 | 33 | GTP and tyrosine and fluores\$ and (scan or imag\$) and (cytoplasm near3 membrane) | USPAT; EPO; DERWENT | 2003/09/29 19:35 |